

THE BUNKHED SHAVES OF AMERICA

North American Plant Breeders

Wilhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic of the variety in a public repository as provided by LAW, the right to exothers from selling the variety, or offering it for sale, or reproducing it, rting it, or exporting it, or using it in producing a hybrid or different herefrom, to the extent provided by the Plant Variety Protection Act 2, as amended, 7 u.s.c. 2321 et seq.)

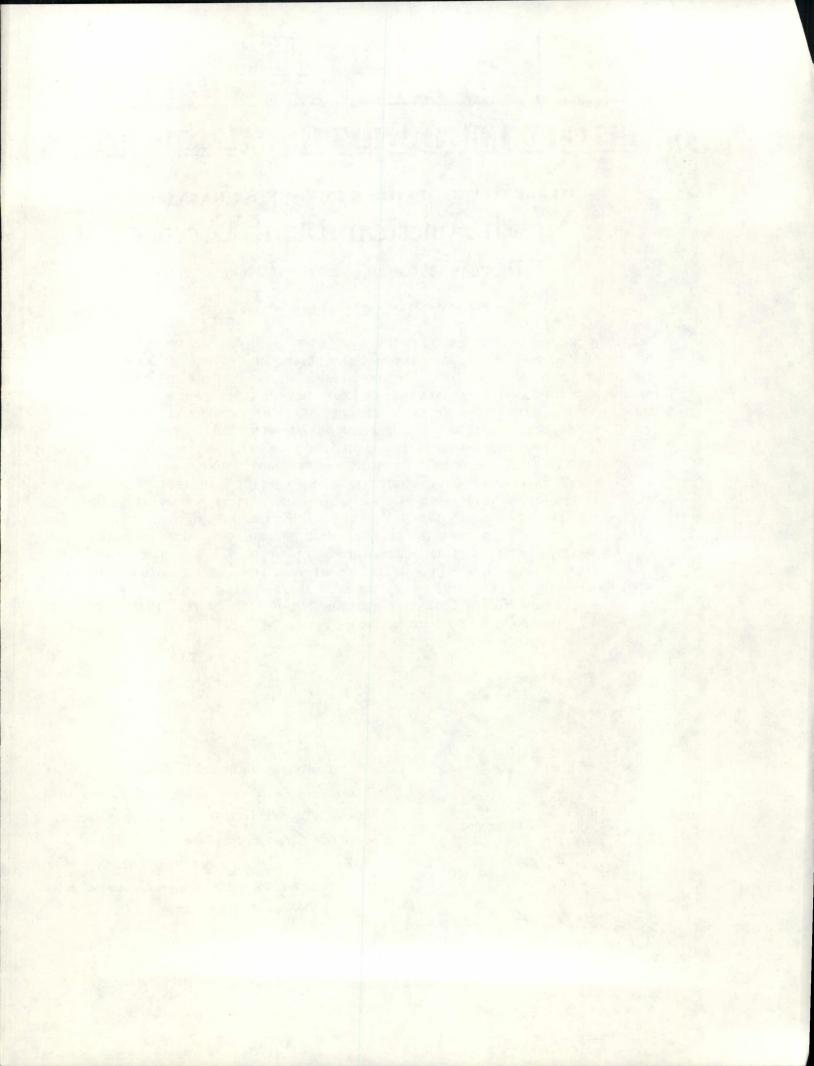
ALFALFA

'Baron'

In Testimonn Wanercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of March in the year of our Lord one thousand nine hundred and eighty-two.

Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

The R Block



U.S. DEPARTMENT AGRICULTURAL M LIVESTOCK, MEAT, GF	FORM APPROVED: OMB NO. 0581-0008					
APPLICATION FOR PLANT VARI	No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C 553).					
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION		AME		
North American Plant Breeders		NAPB 92	Baron			
4. ADDRESS (Street and No. or R.F.D. No., City, State	te, and Zip Code)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY			
North American Plant Breeders, 5 Drive, P. O. Box 2955, Mission,	(913) 384-4940	8200036				
6. GENUS AND SPECIES NAME	7. FAMILY NAI	ME (Botanical)	DATE 12/11, TIME	,000		
Medicago sativa	ledicago sativa Leguminacea LEGUMINOSAE			/81 		
8. KIND NAME	9.	DATE OF DETERMINATION	12:00 AMOUNT	FOR FILING		
Alfalfa						
10. IF THE APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.)	N," GIVE FORM	OF ORGANIZATION (Corporation	\$ 250.	FOR CERTIFICATE		
Corporation			DATE	100		
11. IF INCORPORATED, GIVE STATE OF INCORPORTED CONNECTICUT	RATION			NCORPORATION		
13. NAME AND ADDRESS OF APPLICANT REPRES	3-9-7	EIVE ALL DARERS				
Mr. Giles Dixon, North American						
Dr. Jim B. Moutray, North Americ			es, Iowa	50010		
14. CHECK APPROPRIATE BOX FOR EACH ATTAC	CHMENT SUBMIT	TED				
Exhibit A, Origin and Breeding History of the Section 52 of the Plant Variety Protection Ac	Variety (See	c. Exhibit C, Objective I from Plant Variety Pr	Description of the votection Office.)	Variety (Request form		
b. X Exhibit B, Novelty Statement		d. Exhibit D, Additional	Description of the	Variety		
15. DOES THE APPLICANT(S) SPECIFY THAT SEEL SEED? (See Section 83(a) of the Plant Variety Pro	tection Act.)	ETY BE SOLD BY VARIETY NAM Yes (If "Yes," answer	E ONLY AS A CL. items 16 and 17 be	ASS OF CERTIFIED X No		
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM 16, BEYOND BREEDER SE	WHICH CLASSES	OF PRODUCTION		
X Yes No	Registered X Certified					
18. DID THE APPLICANT(S) FILE FOR PROTECTION	ON OF THE VAR	IETY IN THE U.S. OR OTHER COU	UNTRIES?	Yes (If "Yes," give names of countries and dates)		
			X	No		
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. O	R OTHER COUN	TRIES?		Yes (If "Yes," give names of countries and dates)		
				No		
20. The applicant(s) declare(s) that a viable samp plenished upon request in accordance with su	ich regulations a	is may be applicable.	d with the applic			
The undersigned applicant(s) is (are) the own distinct, uniform, and stable as required in So Variety Protection Act.	ection 41, and is	sentitled to protection under th	e provisions of S	ection 42 of the Plant		
Applicant(s) is (are) informed that false repre	esentation herei	n can jeopardize protection and	result in penaltie	es.		
SIGNATURE OF APPLICANT			DATE	, 1		
Thes her		12-7	-8/			
SIGNATURE OF APPLICANT MOUNDS	9		DATE	17/81		
FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete	1			1		

8200036

N.S. DEPARTMENT OF TO THE PARTMENT OF THE PART

Glad Dup

Exhibit A

Origin and Breeding History of the Variety

'Baron'

'Baron is an intermediate dormant variety composed of 654 clones. It was selected from the varieties 'El Unico', 'Mesa Sirsa', 'Hayden', 'Mesilla', 'Kanza', 'WL 318', 'Pioneer 530' and 'Acco 765'. These varieties have been screened for resistance to Phytophthora root rot, anthracnose, bacterial wilt, spotted alfalfa aphid and blue alfalfa aphid for one to four cycles beginning in 1974.

Breeder seed was produced on the parent plants under isolation near Nampa, Idaho in 1979 and 1980.

During seed multiplication, no variants beyond the limits defined under Exhibit C have been found, and multiplication procedures will ensure that seed being sold as 'Baron' will not be shifted in characteristics beyond presently acceptable limits for alfalfa varieties.

It is also confirmed that 'Baron' meets presently acceptable levels of uniformity for alfalfa varieties.



Exhibit B

Novelty Statement

'Baron'

'Baron' most closely resembles 'Caliverde 65'. 'Baron' has resistance to blue alfalfa aphid, while 'Caliverde 65' is susceptible.



MnGN-1

OTHER

1.6

.59

University of Minnesota

at 25° C with 20,000 lux of cool white florescent; 2,000 lux

84.1

1.8

Preferred standards: Saranac, Vernal, Norseman, Lahontan, Mesa Sirrof incandescent filament light and twelve hours darkness at 5% C.

From cotyledonary node to tip of stem 20 days after planting. 3/ For further clarification consult USDA Agricultural Handbook No. 4:

Give: The institution in charge of test, (2) year, and (3) location of test. Describe test procedure if it differs from procedure suggested in ARS-NC-19, September 1974.

FORM GR 470-32 (3/75) U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY

Alfalfa (Medicago sativa L. complex)

NAME OF APPLICANT(S) North American Plant Breeders	VARIETY NAME OR TEMPORARY DESIGNATION				
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code)	Baron FOR OFFICIAL USE ONLY PVPO NUMBER 8200036				
North American Plant Breeders, 5201 Johnson Drive, P. O. Box 2955, Mission, Kansas 66201					
Place the appropriate number that describes the varietal character of this variety in the boxes	s below.				
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9	or less.				
NOTE: For single plant data a minimum of 100 plants is suggested	RANGE BUILDING TO SEE THE RESERVE				
1. PRIMARY AREA OF ADAPTATION 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 4 = SOUTHEAST 5 = SOUTHWEST 6 = SOUTHEAST	INDICATE AREA WHERE TEST WAS CONDUCTED. FURTHER EXPLANATION CAN GO IN COMMENTS AT THE END OF THE FORM.				
4 = SOUTHEAST 5 = SOUTHWEST 6 = SOUTHERN PLAINS 7 = INTERMOUNTAIN	AREA TESTED				
2. WINTER HARDINESS					
1 = NON-HARDY (Mesa Sirsa) 5 = MODERATELY HARDY (Saranac) 9 = EXTREMELY HARDY (Norseman) 3 = INTERMEDIATE NON-HARDY 7 = HARDY (Vernal)	5 AREA TESTED				
SOURCE OF INFORMATION: 1 = ANTICIPATED 2 = MEASURED					
3. FALL GROWTH HABIT	26.65 (Westerland Suprem				
1 = ERECT (Mesa Sirsa) 3 = SEMIERECT (DuPuits) 5 = INTERMEDIATE (Saranac) 7 = SEMIDECUMENT (Vernal) 9 = DECUMBENT (Norsement)	2,5 AREA TESTED				
4. RECOVERY AFTER FIRST SPRING CUTTING					
1 = VERY FAST (Mesa Sirsa) 3 = FAST (Saranac) 5 = INTERMEDIATE 9 = VERY SLOW (Norseman)	5 AREA TESTED				
5. FLOWERING DATE (FIRST SPRING GROWTH)					
DAYS EARLIER THAN	AREA TESTED				
6. CROWN TYPE	The second secon				
7 1 = SPREADING ROOTS 3 = SPREADING RHIZOMES (Teton) 5 = BROAD (Vernal) 7 = INTERMEDIATE (Saranac) 9 = NAR ROW (Mesa Sirsa)	5 AREA TESTED				
7. PLANT COLOR					
3 = DARK GREEN (Weevichek) 5 = GREEN (Vernal) 7 = LIGHT GREEN (Ranger)	2,5 AREA TESTED				
8. HAIRINESS					
% PLANTS WITH PUBESCENT STEMS	% PLANTS WITH PUBESCENT PODS				
9. POD SHAPE					
% PLANTS WITH TIGHT COILS % PLANTS WITH LOOSE COILS	% PLANTS WITH SICKLE PODS (Less than 1 coil)				

AGE 4 OF 4

INSECT		CULTIVAR	% RESISTANT PLANTS	AVG. SEVERITY INDEX (ASI)	ASI LSD .05	TEST, YEAR & LOCATION 4/
OTHER	(SUBMIT	TED)				The state of the s
	(RES. CH	c.)				L. D. C. C. C. State of the
	(SUS. CK	(.)	-			
NEMATODE	С	ULTIVAR	% RESISTANT PLANTS	INDEX (ASI)	ASI LSD .05	TEST, YEAR & LOCATION 4/
	(SUBMIT	TED)				
STEM NEMATODE	(RES. CH	(.) LAHONTAN				
	(SUS. CK	.) RANGER			Tip is a second	
	(SUBMIT	TED)				
ROOT KNOT		C.) NEV. SYN, XX	La serie			
NEMATODE	(SUS. CK	(,) LAHONTAN				
	(SUBMIT	TED)		The office of the		
SOUTHERN ROOT KNOT	(RES. CH	C.) MOAPA 69				
NEMATODE (SUS. CK.) LAHONTAN		(.) LAHONTAN		on versions.		
	(SUBMIT	TED)				FO TOWARD
OTHER	(RES. CH	(.)				
	(SUS. CK.)					
13. INDICATE A	VARIETY	THAT MOST CLOS	ELY RESEMBLES T	HE VARIETY SUBM	ITTED FOR	THE FOLLOWING CHARACTERS:
CHARACTE	R	R VARIETY		CHARACT	ER	VARIETY
AREA OF ADAP	TATION	Caliv	verde 65	PLANT HEIGHT		Moapa-69
RECOVERY Moapa-69		WINTER HARDINESS		Caliverde 65		

REFERENCES

Barnes, D.K., and C.H. Hanson, An Illustrated Summary of Genetic Traits in Tetraploid and Diploid Alfalfa, ARS Technical Bul. 1370.
Barnes, D.K., et al, Standard Tests to Characterize Pest Resistance in Alfalfa Varieties. ARS-NC-19, September 1974.
Nittler, L.W., G.W. McKee, and J.L. Newcomer, Principles and Methods of Testing Alfalfa Seed for Varietal Purity. New York Agricultural Experiment Station Bul. 807.
USDA Agricultural Handbook No. 424.

COMMENTS

12. DISEASE, INSECT, AND NEMATODE RESISTANCE: (Enter resistance of submitted and check cultivars. Circle check cultivars used.)

DISEASE	CULTIVAR	% RESISTANT PLANTS	AVG. SEVERITY INDEX (ASI)	LSD .05	TEST, YEAR & LOCATION 4
	(SUBMITTED)			j.	
OTHER	(RES. CK.)				1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	(SUS. CK.)				
	(SUBMITTED)				
OTHER	(RES. CK.)				
Park to the state of	(SUS. CK.)	带 正 图 1			
INSECT	CULTIVAR	% SEEDLING SURVIVAL	AVG' SEVERITY INDEX (ASI)	LSD .05	TEST, YEAR & LOCATION 4/
	(SUBMITTED)	40.4309			
PEA APHID	(RES. CK.) KANZA				
	(SUS. CK.) RANGER				
	(SUBMITTED)				1981 Tucson, Arizona
SPOTTED	(RES. CK.) KANZA				test in progress,
ALFALFA APHID	(SUS. CK.) RANGER				results soon.
INSECT	CULTIVAR	% DEFOLIATION	AVG. SEVERITY INDEX (ASI)	ASI LSD .05	TEST, YEAR & LOCATION 4/
	(SUBMITTED)				
ALFALFA WEEVIL	(RES. CK!) ARK				
WEEVIE	(SUS. CK.) VERNAL			a Paris	
INSECT	CULTIVAR	% RESISTANT PLANTS	PER PLANT	LSD .05	TEST, YEAR & LOCATION 4/
	(SUBMITTED)			Lad	HAT I SEE THE COUNTY OF THE PARTY OF
ALFALFA SEED CHALCID	(RES. CK.) LAHONTAN		Total A		
CHALCID	(SUS. CK.) SONORA	MGHE AUNIE, III	19701g. 12.10 12.5		earth out of the market of the state of the
INSECT	CULTIVAR	% RESISTANT PLANTS	AVG. SEVERITY INDEX (ASI)	ASI LSD .05	TEST, YEAR & LOCATION 4/
	(SUBMITTED)				
POTATO LEAF-	(RÉS. CK.)				
HOPPER	(SUS. CK.)				TOTAL SELECTION OF WAR IN THE SELECTION OF S
Blue Alfalfa	Baron (SUBMITTED)	46.0	7.61	.05 es.	
Aphid	Cuf 101	32.7	1000 N		North American Plant Breede

^{4/} Give: The institution in charge of test, (2) year, and (3) location ARS-NC-19, September 1974.

ers

:longate after 5 weeks of heavy the greenhouse.

Resistance defined as those plants w infestation when inoculated at the c

From; AHalfa Production in the low desert Valley areas of California Leaflet 21097 University of California Table 3. Alfalfa Variety and Brand Ratings for Pest Resistance.* July 1979 8200036

Variety or brand			BAG.			Pest	or dise	ase ^{1/}					
	SAA	PA	BAA	PRR	Sc	Rz	BW	FW	SAn	CLS	DM	SN	RKN
					Tole	erance	e or res	istand	e 2/				
Abunda Verde Brand	HR	Т	T	T	T	_	S	T	S	_	_	S	_
Amador	R	S	S	R	_	-	S	_	S	_	T	S	T
Ardiente	T	Т	_	T	T	_	T	_	_	T	T	R	_
AS-13	T	_	_	Т	T		Т	_	S	T	T	T	_
AS-13R	T	_	_	R	R	_	T	_	_	Т	T	R	
Caliente	T	Т	_	S	S		T	_	S	Т	T	S	
Caliverde 65	HR	S	S	MT	_	V	R	_	S	MT	MT	HT	19
Condura 73 Brand	·R	T	S	R	S	S	R	_	S	Т	T.	R	_
Converde 95 Brand	R	R	S	S	S	S	S	_	S	S	R	S	Т
CUf 101	HR	R	R	MR	T		S	HR	S	S	MT	S	
DeKalb Brand 183	R	S	S	T		_	S	_	S	T	T	S	_
DeKalb Brand 185	R	T	S	T		_	S		S	Ť	T	S	_
Diablo Verde Brand	R	R	S	S	_	_	T	MR	МТ	МТ	T	S	_
El Unico	R	S	T	S	S	S			_	S	T	S	Т
Hayden	R	S	S	S	S	S		_	_	S	T	S	T
Imperial 70 Brand	R	_	S	Ť	_	_				_	_	S	s
Joaquin II	R	S	S	T			Т		S	S	S	T	T
Lew	R	S	S	S	S	S			_	S	T	Ŕ	
Matador	HR	S	S	T	3	_	MR	_	S	3	T	S	7.14
Maxidor	R	R	MR	MR	T		IVITA	R	S		•	3	
Mesa Sirsa	R	S			S	S	1 - 25	n	3	S	T	_	NAT
		R	S	S	3	3	-	_		3		T	МТ
Mesilla	R		S	T	-	_	_	R	_	_	_	T	-
Moapa 69	T	S	S	S	S	S	S	MR	S	S	S	S	Т
Pioneer Brand 572	R	R	Ţ	T	Ţ	S	S	-	S	S	HR	S	-
Pioneer Brand 581	R	T	T	R	Т	S	R	_	S	T	R	R	_
Resistador II	R	MT	S	T	_	- T	HT	-	S	T	HT	R	_
Rincon	R	R	S	S	S	_	T	T	-	-	T	_	_
Sonora	Ţ	S	S	S	S	S	S	-	-	S	T	S	МТ
Sonora 70	T	S	S	S	S	S	S		_	S	S	S	MT
UC Cargo	R	T	S	T	T	S	S	HR	S	S	ST	S	_
UC Salton	R	T	S	T	T	S	S	HR	S	S	ST	S	_
Valador	R	T	S	R	T	_	_		MR	-	-	-	MF
WL 450	R	MR	S	T	S	S	MT	MR	T	T	R	R	Т
WL 451	R	T	S	T	S	S	R	HT	Т	Т	T	Т	S
WL 501R (El Dorado R)	R	MR	S	S	S	S	MR	R	T	T	T	S	S
WL 508	HR	R	S	T	S	Т	S	MR	MR	Т	R	S	НТ
WL 512	HR	R	MT	MR	MT	T	MR	R	_	T	MR	R	Т
WL 514	R	R	R	T	-	-	MR	MR		-	T	T	_
WL 600	R	R	MT	S	S	T	Т	MR		T	MR	S	_
819 Brand	R	S	S	S	MT	_	S	_	S	_	S	S	MT
919 Brand	R	S	S	T	-	100	S	_	S	_	T	S	Т

^{*}Adapted from information compiled by V.L. Marble and published also in the "Proceedings of the Eighth California-Arizona Alfalfa Symposium."

^{1/}SAA = Spotted alfalfa aphid

PA = Pea aphid

BAA = Blue alfalfa aphid

PRR = Phytophthora root rot Sc = Scald

⁼ Rhizoctonia stem and root canker

BW = Bacterial wilt

FW = Fusarium wilt

S An = Southern anthracnose

CLS = Common leaf spot DM = Downy mildew

SN = Stem nematode

RKN = Root knot nematode species

2/ HR = Highly resistant

R = Resistant

MR = Moderately resistant

HT = Highly tolerant

T = Tolerant

MT = Moderately tolerant

ST = Slightly tolerant

S = Susceptible

- No data available

Definitions:

R = Resistant. Ability of plants to restrict the activities of a specified pest.

T = Tolerant. Ability of plants to endure a specified pest or an adverse environmental condition, performing and producing in spite of the disorder.

S = Susceptible. Inability of plants to restrict the activities of a specified pest, or to withstand an adverse environmental condition.

How To Use Tensiometers

Tensiometers may be more difficult to manage in alfalfa fields than in other crops because alfalfa fields must be harvested several times a year. Tensiometers used in alfalfa must be protected to prevent damage during harvest operations. This requires either an above-ground enclosure, which may be a nuisance, or an underground implacement with protective coverage. The tensiometers must be read frequently, especially during the summer, and kept in an operating condition. Defective tensiometers should not be used as the extra work involved in reading and maintaining them may discourage many potential users. Many times tensiometers will be suspected of being defective, but they will usually be found to be in working condition and correctly reflecting the true water condition of the soil in which they were placed.

Even though tensiometers may not be generally accepted in alfalfa, they would have definite value in certain alfalfa fields where: (1) grower's experience or knowledge is limited and a means to evaluate the effects of irrigation is useful (2) problems of root and water penetration exist; (3) unknown dry layers or perched water tables are suspected; and (4) excessive soil wetness may occur and persist after irrigation.

Properly used tensiometers can be helpful, but they must be used along with other criteria generally used in determining an irrigation date. Some of these criteria are: crop response, prior personal experience in irrigating alfalfa, and knowledge of the area and the field. Because of soil differences more tensiometers than needed should be used until representative tensiometers can be isolated.

A relatively simple way to place tensiometers is to use six tensiometer locations in the field being checked. Three locations should be evenly spaced about 100 feet in from the intake end of the field, and the other three evenly spaced about 100 feet in from the drain end of the field. Two tensiometers should be placed at each location, with one about 1-foot deeper than the other: for an average field on a heavy soil, place tensiometers 12 and 24 inches below the surface of the soil. The locations should be placed near an irrigation levee so the instruments can be read when the field is wet.

The field should be irrigated when the average reading of the 12-inch deep tensiometers reaches about 45, but should be changed if found to be either too wet or too dry. The 24-inch deep tensiometers should be used primarily to monitor the moisture level at that depth, although they can also be used for scheduling irrigations. Mark (and perhaps protect) your tensiometer locations well—you will need to locate them from time to time, and the equipment operators must know where they are to avoid damaging them.

BILL OF SALE AND ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS that AGRIPRO BIOSCIENCES INC., a Delaware corporation (hereinafter referred to as "Seller"), pursuant to that certain Asset Purchase Agreement of even date herewith by and between Seller and AGR ACQUISITION CORPORATION, a Delaware corporation (hereinafter referred to as "Buyer") and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant, bargain, sell, assign, convey and deliver unto Buyer, all of Seller's right, title and interest in and to the plant varieties owned/registered by Seller and more particularly set forth on Exhibit A attached hereto for which PVP Certificates have been issued by or may be pending before the U. S. Department of Agriculture.

TO HAVE AND TO HOLD UNTO PURCHASER, its successors and assigns forever.

IN WITNESS WHEREOF, Seller has executed this Bill of Sale and Assignment as of the 30th day of June, 1994.

AGRIPRO BIOSCIENCES INC.

BY:	U.a. Zama	
Title:	Pros. dent	

STATE OF KANSAS, COUNTY OF JOHNSON

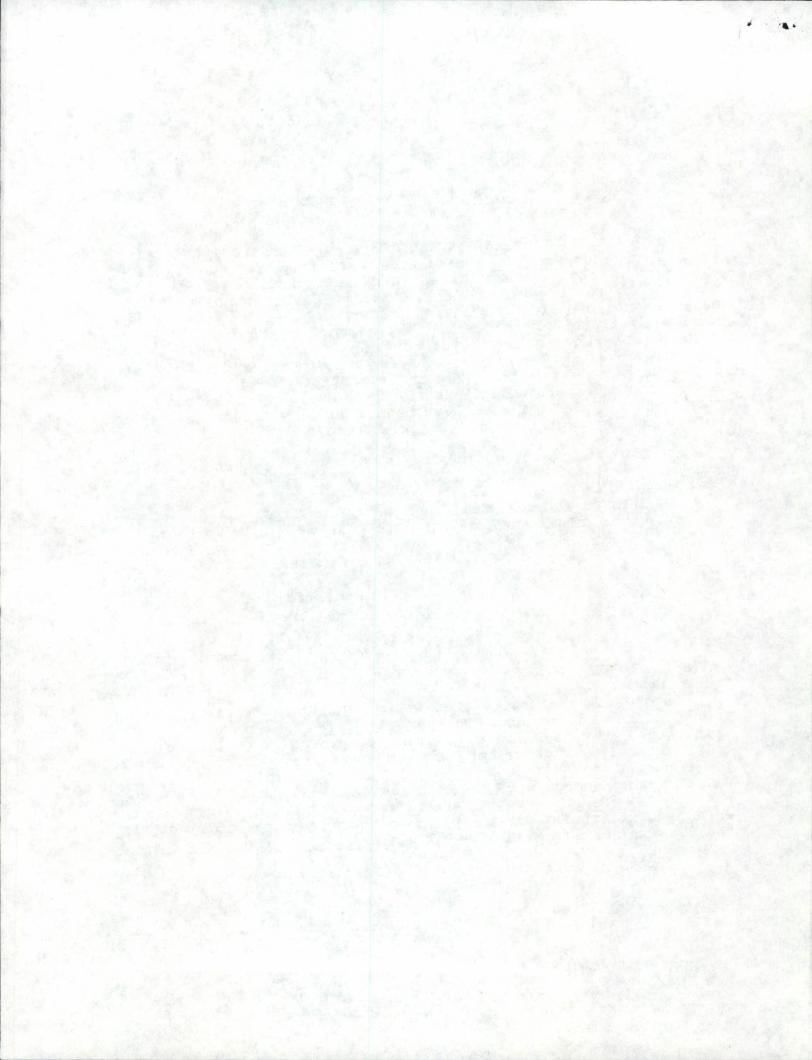
Before me, the undersigned, a Notary Public of the State and County aforesaid, personally appeared __W. A. ZAMA with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who, upon oath, acknowledged himself WRESIDENT of Agripro Biosciences Inc., the within named bargainor, a corporation, and that he as such PRESIDENT, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as PRESIDENT

WITNESS my hand and Notarial Seal at office the day and year above written.

My Commission Expires:

ALMA M. WEAVER NOTARY PUBLIC

STATE OF KANSAS



State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AGR ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AGR ACQUISITION CORPORATION" TO "AGRIPRO SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 1994, AT 4:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.

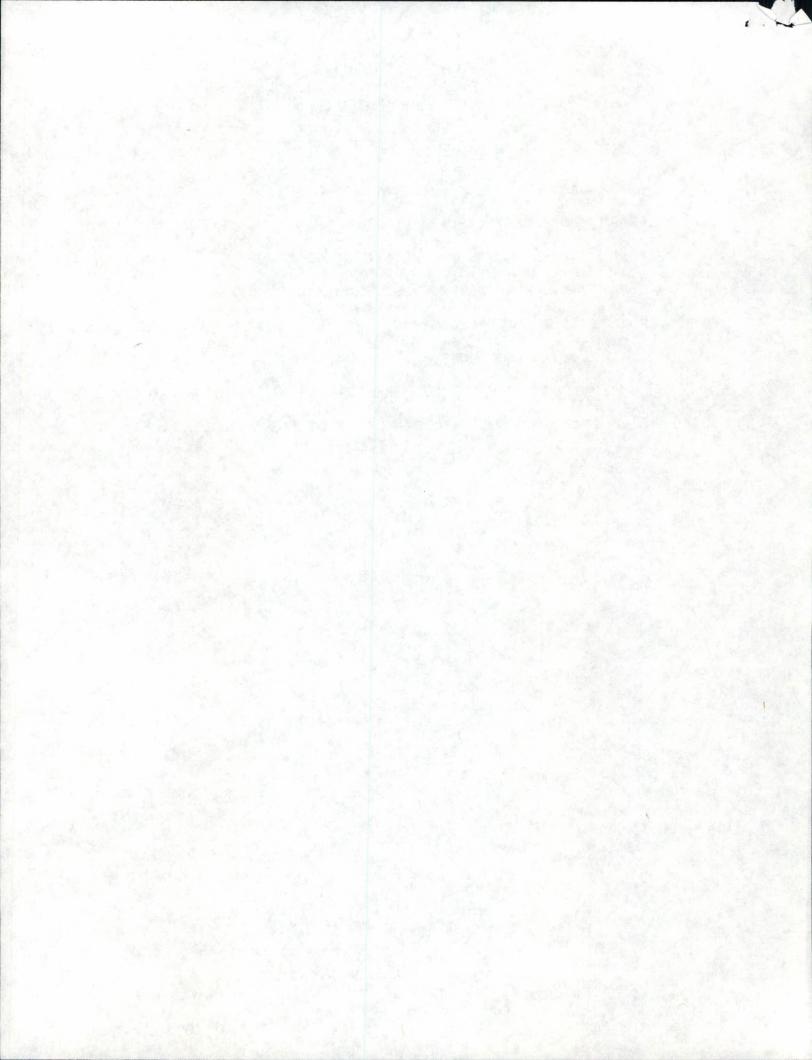
SECRETARY OF STATE

AUTHENTICATION:

7169071

2394087 8100

DATE:



ABI SHAWNEE MSN

Ø 002/002

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
AGR ACQUISITION CORPORATION

AGR Acquisition Corporation, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: that the Board of Directors of said corporation, by the unanimous written consent of its members filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE I" so that, as amended, said Article shall be and read as follows:

"ARTICLE I

Namo

The name of the corporation (hereinafter called the 'Corporation') is Agripro Seeds, Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the sole shareholder of the corporation has given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

FOURTH: That the capital of said corporation shall not be reduced under or by reason of said amendment.

IN WITNESS WHEREOF, said AGR Acquisition Corporation has caused this certificate to be signed by Gary T. Hancock, its President, and attested by Ann Steelman, its Secretary, this 30 day of June, 1994.

AGR ACQUISITION CORPORATION

x: Day J. No

ary T. Hancock, President

ATTEST:

Ann Steelman, Secretary

